NEW MEXICO OIL CONSERVATION COMMSSION

# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

| | | | | | |
|---|---|---|---|---|---|
| Type Test: ☒ Initial ☐ Annual ☐ Special | | | | Test Date: 9-2-93 | 30-059-20125 |
| Company: AMOCO PRODUCTION COMPANY | | Connection: | | | |
| Pool: BRAVO DOME CARBON DIOXIDE GAS UNIT | | Formation: TUBB | | | Unit: BDCDGU |
| Completion Date: 7/7/93 | Total Depth: 3455 | Plug Back TD: 2460 | Elevation: 4885 | | Farm or Lease Name: |
| Csg. Size: 4½" FG (S.S) / Wt.: 4.49 / d: 3.95 / Set At: 3463 | | Perforations: From 2420 To 2450 | | | Well No.: 2233-261 F |
| Tbg. Size: — / Wt.: — / d: — / Set At: — | | Perforations: From — To — | | | Unit: F / Sec.: 26 / Twp.: 22N / Rge.: 33E |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE | | Packer Set At: — | | | County: UNION |
| Producing Thru: CASING | Reservoir Temp. °F: 95 @ 2420' | Mean Annual Temp. °F: 50 | Baro. Press. – $P_a$: 12.2 | | State: NEW MEXICO |

| L | H | Gg | % $CO_2$ | % $N_2$ | % $H_2S$ | Prover | Meter Run | Taps |
|---|---|---|---|---|---|---|---|---|
| — | 3463 ' | 1.529 | 100 | 0 | 0 | | 4.0 | FLANGE |

| | FLOW DATA | | | | | TUBING DATA | | CASING DATA | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NO. | Prover Line Size | X Orifice Size | Press. p.s.i.g. | Diff. $h_w$ | Temp. °F | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F | Duration of Flow |
| SI | | | 320 | | | | | | | |
| 1. | 4.026 | x 0.25 | 225 | | | | | 225 | | 1.5 HRS |
| 2. | 4.026 | x 0.375 | 210 | | | | | 210 | | .6 HRS |
| 3. | 4.026 | x 0.500 | 190 | | | | | 190 | | .5 HRS |
| 4. | 4.026 | x 0.875 | 95 | | | | | 95 | | .5 HRS |
| 5. | | | | | | | | | | |

## RATE OF FLOW CALCULATIONS

| NO. | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure $P_m$ | Flow Temp. Factor Ft. | Gravity Factor Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
|---|---|---|---|---|---|---|---|
| 1 | | | | | | | 221 |
| 2. | | | | | | | 479 |
| 3. | | | | | | | 804 |
| 4. | | | | | | | 1388 |
| 5. | | | | | | | |

| NO. | $P_r$ | Temp. °R | $T_r$ | Z |
|---|---|---|---|---|
| 1 | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |

Gas Liquid Hydrocarbon Ratio: DRY Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: 1.529 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 1072 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 547 R ____ R

$P_c$ 332.2 $P_c^2$ 110.356

| NO | $P_t$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 237.2 | 56,264 | 54.092 |
| 2 | | 222.2 | 49,373 | 60.983 |
| 3 | | 202.2 | 40.885 | 69.471 |
| 4 | | 107.2 | 11.492 | 98.864 |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.043$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.610$

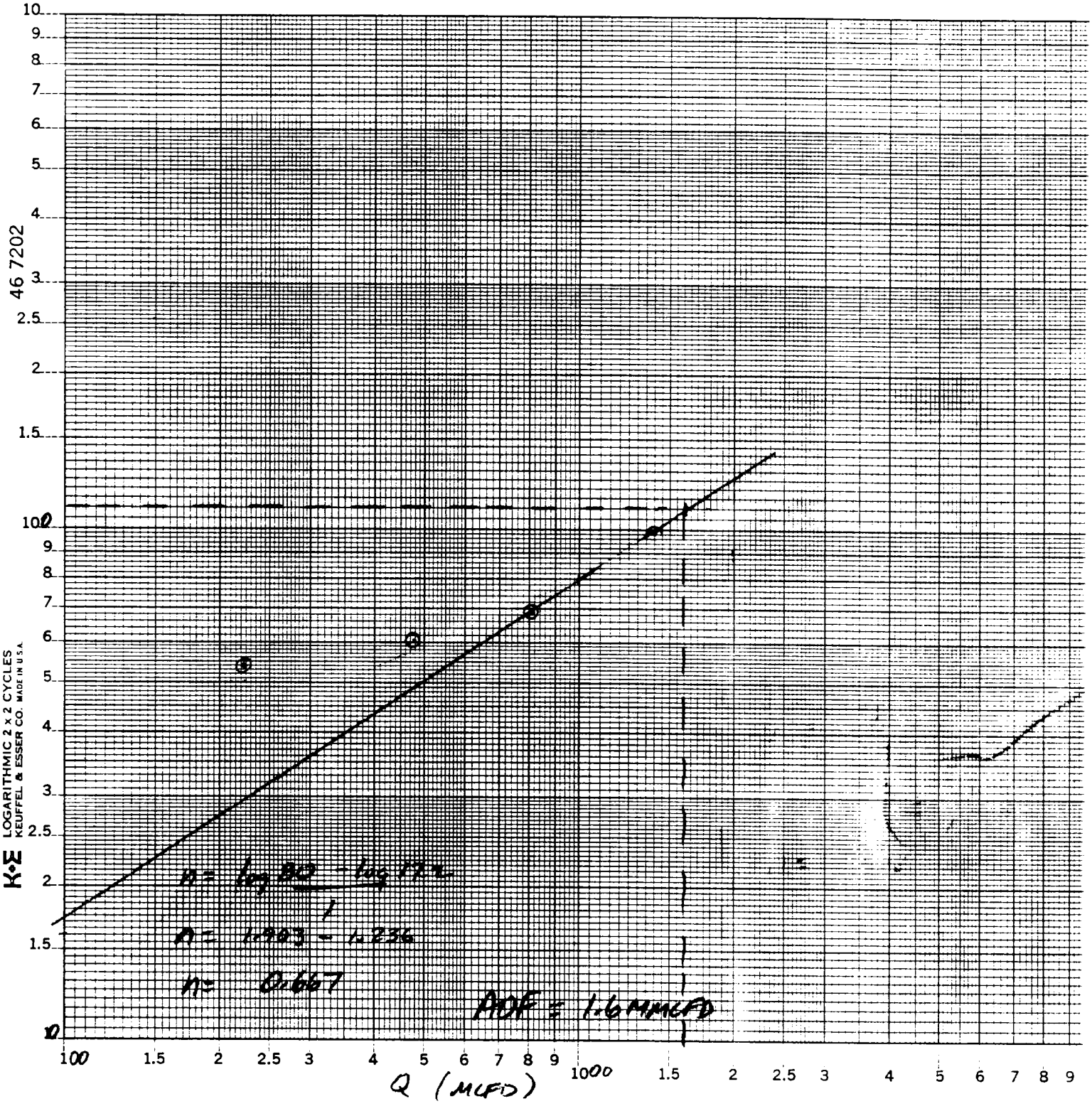
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.61$

Absolute Open Flow: 1.6 MMCFD Mcfd @ 15.025 | Angle of Slope θ: ____ | Slope, n: 0.667

Remarks: WELL MAKING WATER

Approved By Commission: | Conducted By: | Calculated By: | Checked By:

2233-261F




NOTE: WELL LOADING UP AT LOWER RATES WITH WATER.